

1. (Twice Amended) A method for producing a polycyclic aromatic hydrocarbon comprising:

a. combusting a carbon-containing material in a flame; and

b. collecting at least a portion of a condensed phase comprising a liquid phase in the flame;

wherein the condensed phase comprises at least one polycyclic aromatic hydrocarbon.

Please add new claims 46-52 as follows:

46. (New) A method for producing a polycyclic aromatic hydrocarbon, the method comprising:

a. combusting at least one carbon-containing material in a flame; and

b. collecting at least a portion of a condensed phase comprising a liquid phase in the flame;

wherein the condensed phase comprises pyrene. - -

47. (New) The method of Claim 46, wherein the collecting step comprises removing the condensed phase from the flame by suction. - -

48. (New) The method of Claim 46 wherein the carbon-containing material is a hydrocarbon. - -

49. (New) A method for producing a polycyclic aromatic hydrocarbon, the method comprising:

- a. combusting a carbon-containing material in a flame; and
- b. collecting at least a portion of a condensed phase comprising a liquid phase in the flame;

wherein the condensed phase comprises at least one polycyclic aromatic hydrocarbon having from ten to thirty carbon atoms. - -

50. (New) The method of claim 49 wherein the collecting step comprises removing the condensed phase from the flame by suction. - -

51. (New) The method of claim 49 wherein the carbon-containing material is a hydrocarbon. - -

52. (New) The method of claim 49 further comprising:

- (c) reacting the collected condensed phase to form at least one carbonaceous material. - -

Remarks

The undersigned thanks the Examiner for the courtesy of a telephone conference on August 20, 2002.